



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vizginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/087,688	03/01/2002	Quock Ying Ng	STL10351	4885	
7	590 07/01/2003				
Shawn B Dempster, Seagate Technology LLC Intellectual Property - SHK2LG 1280 Disc Drive			EXAMINER		
			DAVIS, DAVID DONALD		
Shakopee, MN 55378-1863		·	ART UNIT	PAPER NUMBER	
			2652	2	
			DATE MAILED: 07/01/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)				
Office Action Summary		10/087,688	NG ET AL.				
		Examiner	Art Unit	_			
		David D. Davis	2652				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address				
A SHOTHE N - Exter after - If the - If NO - Failur - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be t y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	timely filed ays will be considered timely. In the mailing date of this communication (ISS) The communication (ISS) (ISS) (ISS)	ion.			
Status 1)□	Pespensive to communication(s) filed on						
∟(י [2a]	Responsive to communication(s) filed on This action is FINAL . 2b) Th	— · is action is non-final.					
	<i>,</i>		procesution as to the mority	a io			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠	Claim(s) 1-16 is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/o on Papers	r election requirement.					
9)🛛 -	The specification is objected to by the Examine	r.					
10) 🔲 🗆	The drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the Exa	aminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) 🗌 🗆	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disappr	oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_				
14)⊠ A	cknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional applica	ition).			
) The translation of the foreign language pro						
Attachment							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)	·•			
S. Patent and Tr	adamati Office						

Application/Control Number: 10/087,688

Art Unit: 2652

DETAILED ACTION

Information Disclosure Statement

1. Receipt is acknowledged of the Information Disclosure Statement (IDS) received March 1, 2002.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Application/Control Number: 10/087,688

Art Unit: 2652

5. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Albrecht et al (US 6,160,686) in view of Boutaghou et al (US 6,122,130). Albrecht et al shows a ramp 32 that includes at least one ramp surface for releasable engagement with a tab 34 characterized by a tab hardness. In column 7, lines 37-48 of Albrecht et al disclose a body molded from a compound formulation consisting essentially of a polymer and embedded particles away from the ramp surface considered to have the same hardness as the tab hardness.. The polymer of Albrecht et al is characterized by a polymer surface tension.

Albrecht et al, however, is silent as to the ramp including a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer.

Boutaghou et al shows in figure 3 a ramp including a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer.

The liquid of Boutaghou is characterized by a liquid surface tension that is lower than the polymer surface tension. The liquid of Boutaghou et al is further characterized by a viscosity that facilitates travel of the droplets in the polymer. Irregularities are formed by the droplets of Boutaghou et al traveling to the ramp surface.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide the ramp of Albrecht et al with a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer as taught by Boutaghou et al. The rationale is as follows: one of ordinary skill in the art at the time the invention was made would have been motivated to provide a ramp with a

Page 4

Art Unit: 2652

liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer so as to produce a effective and optimized coefficient of friction.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Davis whose telephone number is (703) 308-1503. The examiner can normally be reached on Mon., Tues., Thurs. and Fri. between 7:30-6:00. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900. Any other inquiry should be directed to the customer service center whose telephone number is (703) 306-0377.

Primary Examiner
Art Unit 2652

ddd June 16, 2003

47